

=> fil reg

FILE 'REGISTRY' ENTERED AT 16:25:26 ON 24 MAY 2004
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 COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 23 MAY 2004 HIGHEST RN 685087-62-1
 DICTIONARY FILE UPDATES: 23 MAY 2004 HIGHEST RN 685087-62-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

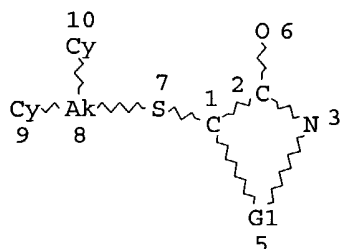
Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l9

L5 STR



REP G1=(1-4) C

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L7 10 SEA FILE=REGISTRY SSS FUL L5

L8 4 SEA FILE=REGISTRY ABB=ON PLU=ON L7 AND (C20H21NO4S OR
 C40H30N2O2S OR C19H19NO4S OR C20H21NO4S)

L9 6 SEA FILE=REGISTRY ABB=ON PLU=ON L7 NOT L8

=> d his

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 SET COST OFF

FILE 'REGISTRY' ENTERED AT 16:19:50 ON 24 MAY 2004

L1 STR

L2 1 S L1

L3 STR L1

L4 1 S L3

L5 STR L3
L6 1 S L5
L7 10 S L5 FUL
SAV L7 ZINNA716/A
L8 4 S L7 AND (C20H21NO4S OR C40H30N2O2S OR C19H19NO4S OR C20H21NO4S
L9 6 S L7 NOT L8

FILE 'HCAPLUS' ENTERED AT 16:24:28 ON 24 MAY 2004

L10 1 S L9
L11 3 S L8
L12 1 S L11 AND L10
L13 2 S L11 NOT L12

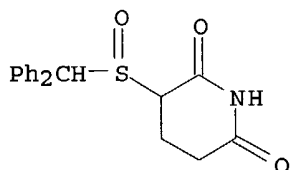
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L14 2 S L9
L15 2 S L8
L16 2 S L14 AND L15

FILE 'REGISTRY' ENTERED AT 16:25:26 ON 24 MAY 2004

=> d ide can tot l9

L9 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477728-08-8 REGISTRY
CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H17 N O3 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

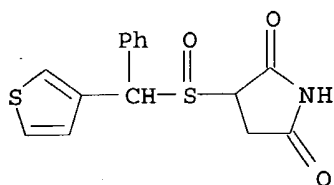


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477728-07-7 REGISTRY
CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C15 H13 N O3 S2
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

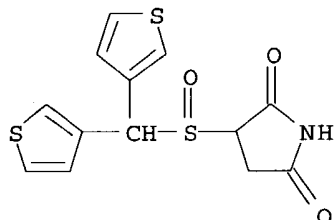


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477728-06-6 REGISTRY
CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H11 N O3 S3
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

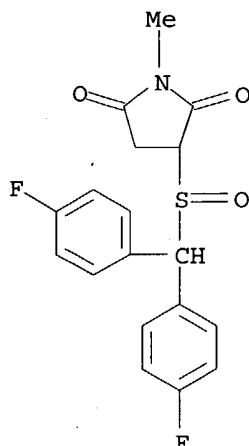


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477728-05-5 REGISTRY
CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H15 F2 N O3 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

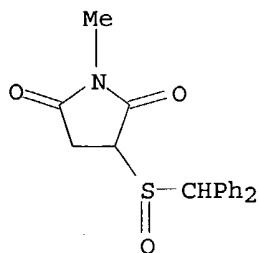


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477728-01-1 REGISTRY
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H17 N O3 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



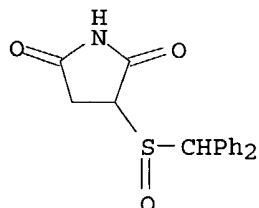
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L9 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477728-00-0 REGISTRY
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD

MF C17 H15 N O3 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

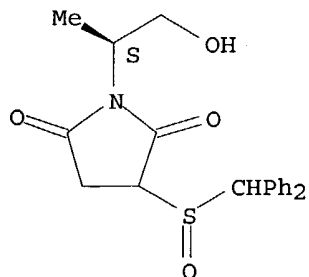
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

=> d ide can tot l8

L8 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477728-04-4 REGISTRY
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H21 N O4 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

Absolute stereochemistry.

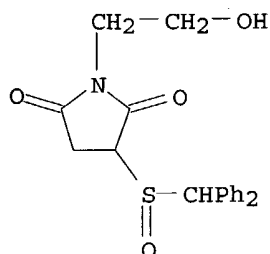


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L8 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477728-03-3 REGISTRY
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)-
(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H19 N O4 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

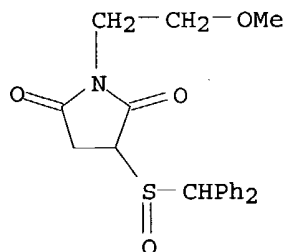


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L8 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477728-02-2 REGISTRY
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)-
(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H21 N O4 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES
(Uses)

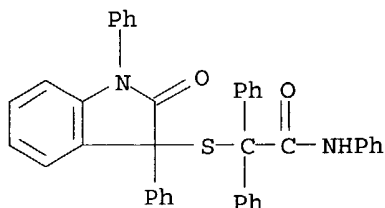


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:14055

L8 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 35133-13-2 REGISTRY
 CN Benzeneacetamide, α -[(2,3-dihydro-2-oxo-1,3-diphenyl-1H-indol-3-yl)thio]-N, α -diphenyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2,3-Dihydro-1,3-diphenyl-2-oxoindol-3-yl diphenyl(phenylcarbamoyl)methyl sulfide
 MF C40 H30 N2 O2 S
 LC STN Files: BEILSTEIN*, CA, CAPLUS
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 78:16153

REFERENCE 2: 76:51215

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 16:25:42 ON 24 MAY 2004
 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 16:25:42 ON 24 MAY 2004
 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitstr tot l16

L16 ANSWER 1 OF 2 USPATFULL on STN
 AN 2002:323168 USPATFULL
 TI Substituted thioacetamides
 IN Bacon, Edward R., Audubon, PA, UNITED STATES
 Chatterjee, Sankar, Wynnewood, PA, UNITED STATES
 Dunn, Derek, Coatesville, PA, UNITED STATES
 Mallamo, John P., Glenmoore, PA, UNITED STATES
 Miller, Matthew S., Newtown, PA, UNITED STATES
 Tripathy, Rabindranath, Landenberg, PA, UNITED STATES
 Vaught, Jeffry L., Glenmoore, PA, UNITED STATES
 PI US 2002183334 A1 20021205
 US 6670358 B2 20031230
 AI US 2001-14645 A1 20011026 (10)
 RLI Continuation-in-part of Ser. No. US 2001-855228, filed on 15 May 2001,
 PENDING
 PRAI US 2000-204789P 20000516 (60)
 US 2001-268283P 20010213 (60)
 DT Utility

FS APPLICATION

LREP Robert T. Hrubiec, Cephalon, Inc., 145 Brandywine Parkway, West Chester, PA, 19380

CLMN Number of Claims: 45

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 3556

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to chemical compositions of substituted thioacetamides, processes for the preparation thereof and uses of the compositions in the treatment of diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 477728-00-0P 477728-01-1P 477728-02-2P

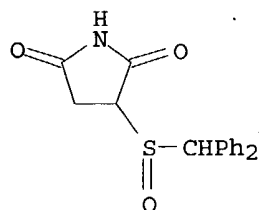
477728-03-3P 477728-04-4P 477728-05-5P

477728-06-6P 477728-07-7P 477728-08-8P

(preparation of substituted thioacetamides for treatment of sleep disorders)

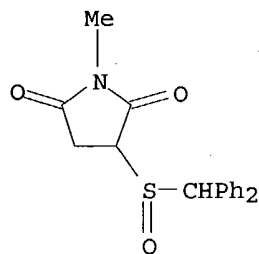
RN 477728-00-0 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



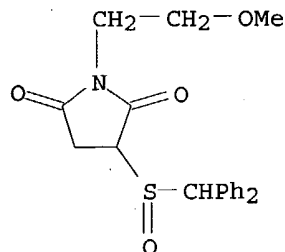
RN 477728-01-1 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)

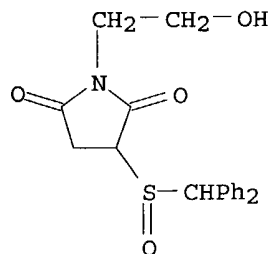


RN 477728-02-2 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



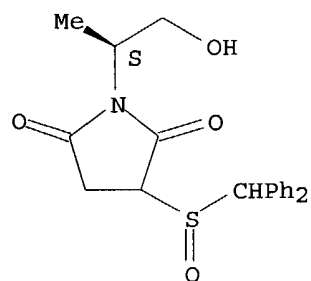
RN 477728-03-3 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)-
(9CI) (CA INDEX NAME)

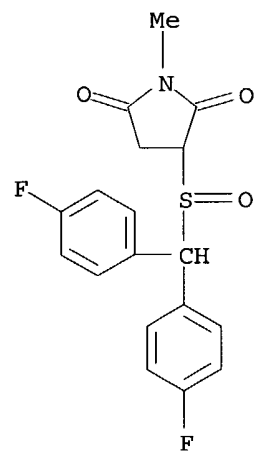
RN 477728-04-4 USPATFULL

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

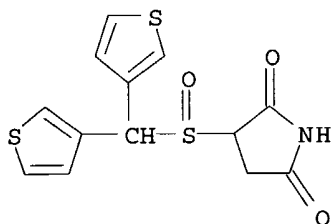


RN 477728-05-5 USPATFULL

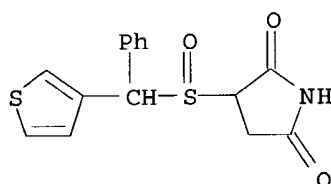
CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl-
(9CI) (CA INDEX NAME)

RN 477728-06-6 USPATFULL

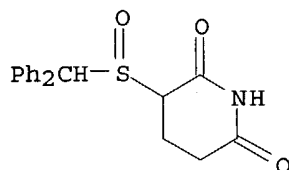
CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



RN 477728-07-7 USPATFULL
 CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



RN 477728-08-8 USPATFULL
 CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



L16 ANSWER 2 OF 2 USPAT2 on STN
 AN 2002:323168 USPAT2
 TI Substituted thioacetamides
 IN Bacon, Edward R., Audubon, PA, United States
 Chatterjee, Sankar, Wynnewood, PA, United States
 Dunn, Derek, Coatesville, PA, United States
 Mallamo, John P., Glenmoore, PA, United States
 Miller, Matthew S., Newtown, PA, United States
 Tripathy, Rabindranath, Landenberg, PA, United States
 Vaught, Jeffry L., Glenmoore, PA, United States
 PA Cephalon, Inc., West Chester, PA, United States (U.S. corporation)
 PI US 6670358 B2 20031230
 AI US 2001-14645 20011026 (10)
 RLI Continuation-in-part of Ser. No. US 2001-855228, filed on 15 May 2001,
 now patented, Pat. No. US 6492396
 PRAI US 2000-204789P 20000516 (60)
 US 2001-268283P 20010213 (60)
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Davis, Zinna Northington
 LREP Hrubiec, Robert T., Voelk, Eric K.
 CLMN Number of Claims: 29
 ECL Exemplary Claim: 1
 DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
 LN.CNT 3166

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to chemical compositions of substituted thioacetamides, processes for the preparation thereof and uses of the compositions in the treatment of diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 477728-00-0P 477728-01-1P 477728-02-2P

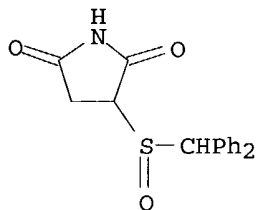
477728-03-3P 477728-04-4P 477728-05-5P

477728-06-6P 477728-07-7P 477728-08-8P

(preparation of substituted thioacetamides for treatment of sleep disorders)

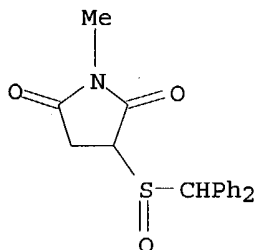
RN 477728-00-0 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



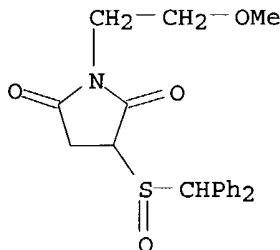
RN 477728-01-1 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)



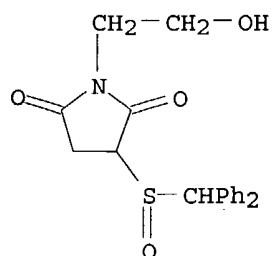
RN 477728-02-2 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



RN 477728-03-3 USPAT2

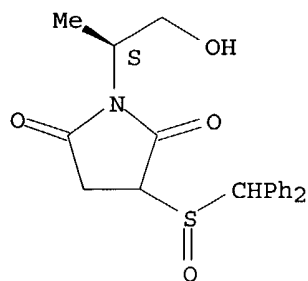
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



RN 477728-04-4 USPAT2

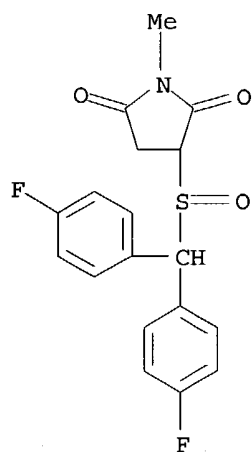
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



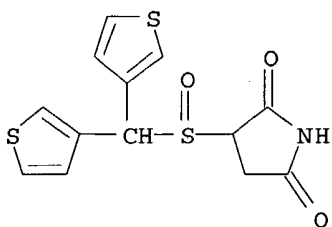
RN 477728-05-5 USPAT2

CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)



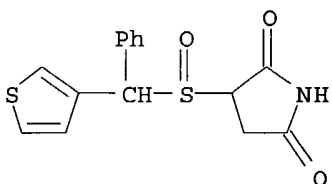
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CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



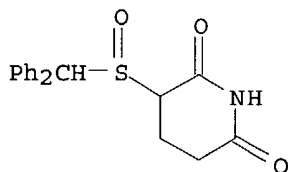
RN 477728-07-7 USPAT2

CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



RN 477728-08-8 USPAT2

CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 16:25:57 ON 24 MAY 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 24 May 2004 VOL 140 ISS 22

FILE LAST UPDATED: 23 May 2004 (20040523/ED)

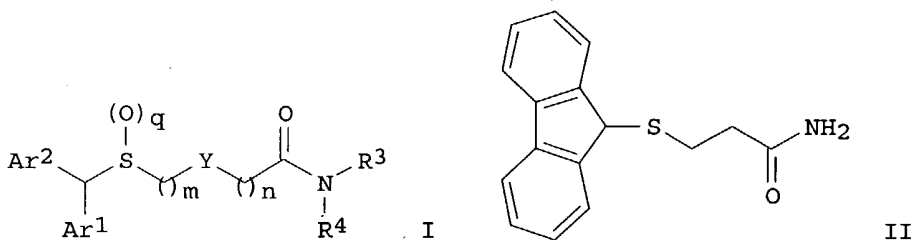
This file contains CAS Registry Numbers for easy and accurate substance identification.

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L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:928245 HCAPLUS
 DN 138:14055
 ED Entered STN: 06 Dec 2002
 TI Preparation of substituted thioacetamides for treatment of sleep disorders
 IN Bacon, Edward R.; Chatterjee, Sankar; Dunn, Derek; Mallamo, John P.;
 Miller, Matthew S.; Tripathy, Rabindranath; Vaught, Jeffrey L.
 PA Cephalon, Inc., USA
 SO U.S. Pat. Appl. Publ., 52 pp., Cont.-in-part of U.S. Ser. No. 855,228.
 CODEN: USXXCO
 DT Patent
 LA English
 IC ICM A61K031-505
 ICS A61K031-277; C07C317-26
 NCL 514256000; 514385000; 514521000; 514599000; 514539000; 514618000;
 544242000; 548354100; 558413000; 564162000
 CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1, 23, 63

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002183334	A1	20021205	US 2001-14645	20011026
	US 6670358	B2	20031230		
	US 2002045629	A1	20020418	US 2001-855228	20010515
	US 6492396	B2	20021210		
	WO 2003037853	A1	20030508	WO 2002-US34188	20021025
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2000-204789P	P	20000516		
	US 2001-268283P	P	20010213		
	US 2001-855228	A2	20010515		
	US 2001-14645	A	20011026		
OS	MARPAT 138:14055				
GI					



AB Title compds. I [Ar1-2 = (hetero)aryl; Y = alkylene, alkyl, (hetero)arylene, cycloalkylene, O, SO0-2, etc.; R3-4 = H, alkyl, OH, etc.;

m, n = 0-3; q = 0-2] were prepared For instance, thiourea and 9-hydroxyfluorene were reacted (HBraq, 100-105°, 30 min) to afford the corresponding thiouronium salt. This was treated with NaOHaq and 3-bromopropionic acid to afford the sulfide-carboxylic acid and subsequently treated with SOCl₂/NH₄OH to give II. Selected example compds. possessed wake-promoting activity (rats). I are useful in the treatment of sleep disorders, Parkinson's disease, etc.

ST thioacetamide sleep amide sulfide prepn
 IT Mental disorder
 (attention deficit hyperactivity disorder; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Brain
 (cerebral cortex, hypofunctionality, disorders associated with; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Fatigue, biological
 (chronic fatigue syndrome; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Mental disorder
 (cognitive; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Mental disorder
 (depression; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Appetite
 Cognition
 (disorder; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Brain, disease
 (ischemia; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Antidepressants
 Antiparkinsonian agents
 Fatigue, biological
 Human
 Parkinson's disease
 Schizophrenia
 (preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Apnea
 (sleep apnea; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Mental activity
 (sleepiness; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Brain, disease
 (stroke; preparation of substituted thioacetamides for treatment of sleep disorders)
 IT Body weight
 (weight gain; preparation of substituted thioacetamides for treatment of sleep disorders)

IT 374722-01-7P 374722-02-8P 374722-05-1P 374722-06-2P 374722-07-3P
 374722-08-4P 374722-09-5P 374722-13-1P 374722-14-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of substituted thioacetamides for treatment of sleep disorders)
 IT 374721-09-2P 374721-10-5P 374721-11-6P 374721-12-7P 374721-13-8P
 374721-14-9P 374721-15-0P 374721-16-1P 374721-17-2P 374721-18-3P
 374721-19-4P 374721-20-7P 374721-21-8P 374721-22-9P 374721-23-0P
 374721-24-1P 374721-25-2P 374721-26-3P 374721-27-4P 374721-28-5P
 374721-29-6P 374721-30-9P 374721-31-0P 374721-33-2P 374721-35-4P
 374721-36-5P 374721-37-6P 374721-38-7P 374721-39-8P 374721-40-1P

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 374721-46-7P 374721-47-8P 374721-48-9P 374721-49-0P 374721-50-3P
 374721-52-5P 374721-54-7P 374721-57-0P 374721-58-1P 374721-60-5P
 374721-62-7P 374721-64-9P 374721-66-1P 374721-68-3P 374721-69-4P
 374721-70-7P 374721-71-8P 374721-72-9P 374721-73-0P 374721-74-1P
 374721-75-2P 374721-76-3P 374721-77-4P 374721-78-5P 374721-79-6P
 374721-80-9P 374721-82-1P 374721-83-2P 374721-84-3P 374721-85-4P
 374721-86-5P 374721-87-6P 374721-88-7P 374721-89-8P 374721-90-1P
 374721-91-2P 374721-92-3P 374721-94-5P 374721-99-0P 374722-00-6P
 374722-86-8P 477727-96-1P 477727-97-2P 477727-98-3P 477727-99-4P

477728-00-0P 477728-01-1P 477728-02-2P

477728-03-3P 477728-04-4P 477728-05-5P

477728-06-6P 477728-07-7P 477728-08-8P

477728-09-9P 477728-10-2P 477728-11-3P 477728-12-4P 477728-13-5P

477728-14-6P 477728-15-7P 477728-16-8P 477728-17-9P 477728-18-0P

477733-03-2P 477733-04-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of substituted thioacetamides for treatment of sleep disorders)

IT 62-56-6, Thiourea, reactions 79-11-8, Chloroacetic acid, reactions
 100-52-7, Benzaldehyde, reactions 107-10-8, n-Propylamine, reactions
 108-31-6, Maleic anhydride, reactions 109-85-3, 2-Methoxyethylamine
 110-91-8, Morpholine, reactions 131-11-3, Dimethylphthalate 498-62-4,
 3-Thiophenecarboxaldehyde 541-59-3, Maleimide 590-92-1,
 3-Bromopropionic acid 872-31-1, 3-Bromothiophene 879-52-7 930-88-1,
 N-Methylmaleimide 1131-62-0 1210-34-0, Dibenzosuberol 1689-64-1,
 9-Hydroxyfluorene 2365-48-2, Methyl thioglycolate 2623-87-2,
 4-Bromobutyric acid 2749-11-3, (S)-2-Aminopropanol 7324-05-2,
 (L)-Alanineamide 62595-74-8 77868-83-8, 3-Bromo-1-phenylpyrrolidin-2-
 one 374721-98-9 477728-24-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of substituted thioacetamides for treatment of sleep disorders)

IT 19552-08-0P, 9H-Fluorene-9-thiol 31936-92-2P 64850-75-5P 79364-17-3P
 93001-83-3P 222626-23-5P 222626-25-7P 374721-95-6P 374721-96-7P
 374721-97-8P 374722-04-0P 374722-10-8P 374722-11-9P 374722-12-0P
 374722-15-3P 477728-19-1P 477728-20-4P 477728-21-5P 477728-22-6P
 477728-23-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of substituted thioacetamides for treatment of sleep disorders)

IT 477728-00-0P 477728-01-1P 477728-02-2P

477728-03-3P 477728-04-4P 477728-05-5P

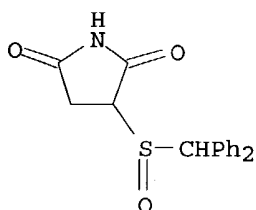
477728-06-6P 477728-07-7P 477728-08-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of substituted thioacetamides for treatment of sleep disorders)

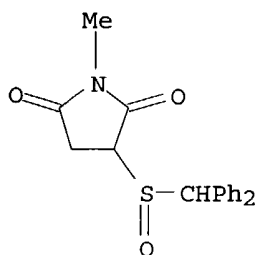
RN 477728-00-0 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



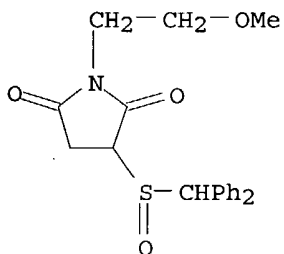
RN 477728-01-1 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-methyl- (9CI) (CA INDEX NAME)



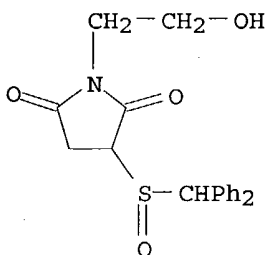
RN 477728-02-2 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



RN 477728-03-3 HCAPLUS

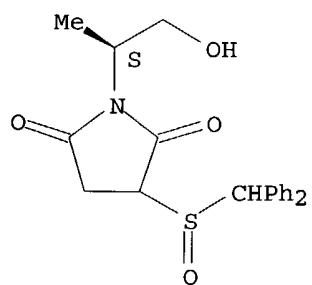
CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



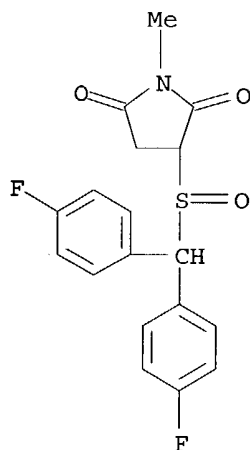
RN 477728-04-4 HCAPLUS

CN 2,5-Pyrrolidinedione, 3-[(diphenylmethyl)sulfinyl]-1-[(1S)-2-hydroxy-1-methylethyl]- (9CI) (CA INDEX NAME)

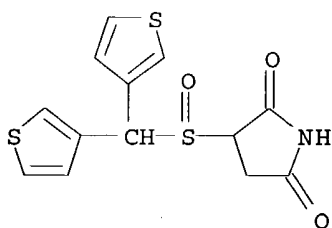
Absolute stereochemistry.



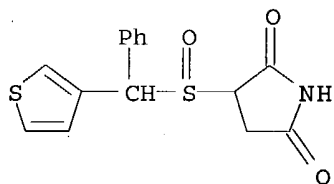
RN 477728-05-5 HCAPLUS
 CN 2,5-Pyrrolidinedione, 3-[[bis(4-fluorophenyl)methyl]sulfinyl]-1-methyl-
 (9CI) (CA INDEX NAME)



RN 477728-06-6 HCAPLUS
 CN 2,5-Pyrrolidinedione, 3-[(di-3-thienylmethyl)sulfinyl]- (9CI) (CA INDEX
 NAME)

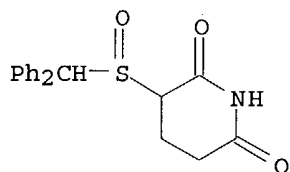


RN 477728-07-7 HCAPLUS
 CN 2,5-Pyrrolidinedione, 3-[(phenyl-3-thienylmethyl)sulfinyl]- (9CI) (CA
 INDEX NAME)



RN 477728-08-8 HCAPLUS

CN 2,6-Piperidinedione, 3-[(diphenylmethyl)sulfinyl]- (9CI) (CA INDEX NAME)



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L13 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1973:16153 HCAPLUS

DN 78:16153

ED Entered STN: 12 May 1984

TI Reactions of sulfur diimides with ketenes

AU Minami, Toru; Yamataka, Kazunori; Ohshiro, Yoshiki; Agawa, Toshio; Yasuoka, Noritake; Kasai, Nobutami

CS Fac. Eng., Osaka Univ., Suita, Japan

SO Journal of Organic Chemistry (1972), 37(24), 3810-18

CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

CC 28-24 (Heterocyclic Compounds (More Than One Hetero Atom))

OS CASREACT 78:16153

AB Addnl. data considered in abstracting and indexing are available from a source cited in the original document. The reaction products of sulfur diimides with $\text{Ph}_2\text{C}:\text{CO}$ are temperature-dependent. The reaction of $(\text{PhN:})_2\text{S}$ with $\text{Ph}_2\text{C}:\text{CO}$ at $6 - 8^\circ$ gave the 1:2-cycloadduct, 2,3,4,6,7-pentahydro-2,4,4,7-tetraphenyl-3-oxo-1,5,2,7-thiaoxadiazepin-6-ylidene diphenyl methane (I) and at 80° the 1:1-cycloadduct 2,4,4,5-tetraphenyl-1,2,5-thiadiazolidin-3-one (II). Refluxing I in C_6H_6 led to II and $\text{Ph}_2\text{C}:\text{CO}(\text{Me}_3\text{CN:})_2\text{S}$ and $\text{Ph}_2\text{C}:\text{CO}$ at $0 - 2^\circ$ gave a 1,2-cycloadduct, 4,4-diphenyl-1-t-butylimino-2-t-butyl-1,2-thiazetidin-3-one which readily underwent a rearrangement to 4,4-diphenyl-2,5-di-t-butyl-1,2,5-thiadiazolidin-3-one. The reaction of sulfur diimides with alkylketenes gave no 1,2- or 1,3-cycloadducts but the thiobisamine derivs. or their hydrolysis products. The reaction between $(\text{PhN:})_2\text{S}$ and $\text{Me}_2\text{C}:\text{CO}$ gave rise to 2-phenylimino-3,3-dimethyl-1H-2,1-benzothiazine-4(3H)-one in addition to N,N'-diphenyl, -N-(2-methylpropenoyl), -N'-isobutanoyl thiobisamine.

ST thiaoxadiazepine; thiadiazolidinone; thiazetidinone; cycloaddn ketene sulfur diimide; amine thiobis; thiobisamine

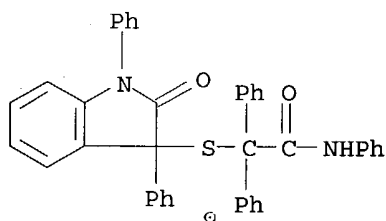
IT 2056-74-8 3839-89-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(adduct of, with ketene)

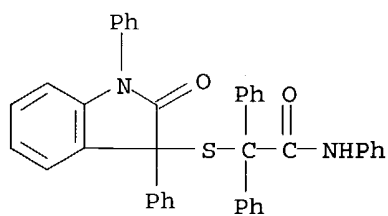
IT 525-06-4 598-26-5 20452-67-9 22589-13-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(adduct of, with sulfur diimide)

IT 1611-83-2P 2719-26-8P 4406-41-1P 6554-73-0P 7472-49-3P
 10572-61-9P 13616-67-6P 19155-24-9P 23210-25-5P 29376-74-7P
 32119-42-9P **35133-13-2P** 36138-85-9P 36138-86-0P
 36138-87-1P 36138-88-2P 36146-78-8P 36146-81-3P 36146-93-7P
 36146-94-8P 36146-96-0P 36146-97-1P 36146-98-2P 36147-00-9P
 36147-01-0P 36147-03-2P 36147-04-3P 36147-05-4P 36147-06-5P
 36147-10-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 IT **35133-13-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 35133-13-2 HCAPLUS
 CN Benzeneacetamide, α -[(2,3-dihydro-2-oxo-1,3-diphenyl-1H-indol-3-yl)thio]-N, α -diphenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1972:51215 HCAPLUS
 DN 76:51215
 ED Entered STN: 12 May 1984
 TI Molecular structure of one of the 1:2 adducts from diphenylsulfur diimide and diphenylketene
 AU Kai, Yasushi; Yasuoka, Noritake; Kasai, Nobutami; Minami, Toru; Yamataka, Kazunori; Ohshiro, Yoshiki; Agawa, Toshio
 CS Dep. Appl. Chem., Osaka Univ., Osaka, Japan
 SO Journal of the Chemical Society [Section] D: Chemical Communications (1971), (23), 1532
 CODEN: CCJDAO; ISSN: 0577-6171
 DT Journal
 LA English
 CC 70 (Crystallization and Crystal Structure)
 AB X-ray anal. of the title adduct showed it to be 2,3-dihydro-1,3-diphenyl-2-oxoindol-3-yl diphenyl(phenylcarbamoyl)methyl sulfide; crystals were monoclinic, with space group P21/a, a 22.206, b 11.907, c 12.027 Å, β 100.50°, d. (exptl.) 1.26, d. (calculated) 1.28, Z=4, and R 0.056 for 3030 reflections.
 ST ketenes adduct diphenylsulfur diimide; indolyl methyl sulfide crystal structure; sulfur diimide diphenyl ketenes
 IT Crystal structure
 Molecular structure
 (of dihydrodiphenyloxindolyl diphenyl(phenylcarbamoyl)methyl sulfide)
 IT **35133-13-2**
 RL: PRP (Properties)
 (crystal structure of)
 IT **35133-13-2**
 RL: PRP (Properties)
 (crystal structure of)
 RN 35133-13-2 HCAPLUS
 CN Benzeneacetamide, α -[(2,3-dihydro-2-oxo-1,3-diphenyl-1H-indol-3-yl)thio]-N, α -diphenyl- (9CI) (CA INDEX NAME)



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eDAN Version 1.3.1 - ZINNA DAVIS (65429) Art Unit: 1625 - Applications for inventor: BACON, EDWARD								
File Edit View Preferences Tools Messaging Window Help								
Application #								
Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title		
	09/425289		041	10/26/1999	BACON, EDWARD	EMBOLUS THERAPY USING INSOLUBLE MICROPARTICLES OR VESICLES CONTAINING CONTRAST AGENTS		
	09/429346		181	10/28/1999	BACON, EDWARD	LIGHT IMAGING CONTRAST AGENTS		
	09/429347	6350431	150	10/28/1999	BACON, EDWARD	COMPOUNDS		
	09/443345		181	11/19/1999	BACON, EDWARD	CONTRAST MEDIA FOR IMAGING OF LUNG DRAINING LYMPH NODES, ADMINISTERED THROUGH THE LUNGS		
	09/577441	6596097	150	05/24/2000	BACON, EDWARD	METHOD OF COATING A METAL SUBSTRATE WITH A RADIOACTIVE LAYER		
	09/585938		181	06/02/2000	BACON, EDWARD	Enhanced radiation therapy		
	09/589091		181	06/08/2000	BACON, EDWARD	Compositions		
	09/732917	6540981	150	12/11/2000	BACON, EDWARD	LIGHT IMAGING CONTRAST AGENTS		
	09/831229	6689043	150	07/23/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY		
	09/855228	6482386	150	05/15/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES		
	09/860011	8632176	150	05/17/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY		
	10/009576		041	08/27/2002	BACON, EDWARD	Iodine-containing radioactive sources		
	10/014645	6670358	150	10/26/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES		
	10/067545		180	02/07/2002	BACON, EDWARD	Contrast media		
Docket: ZINNA DAVIS - 05/25/... TOC - 10/716238 - DAVIS, ZIN... * 10/716238 - Transmittal of N... Bib Data - 10/716238 - DAVIS... Applications for inventor: BAC...								
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eDAN Version 1.3.1 - ZINNA DAVIS (65429) Att Unit: 1625 - Applications for inventor: BACON, EDWARD								
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Application #								
Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title		
	09/831229	6689043	150	07/23/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY		
	09/855228	6492398	150	05/15/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES		
	09/860011	6632176	150	05/17/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY		
	10/009576		041	08/27/2002	BACON, EDWARD	Iodine-containing radioactive sources		
	10/014645	6670358	150	10/26/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES		
	10/067545		160	02/07/2002	BACON, EDWARD	Contrast media		
	10/105144		161	03/25/2002	BACON, EDWARD	Down pipe filter		
	10/286988		030	11/01/2002	BACON, EDWARD	Light imaging contrast agents		
	10/452398		030	06/02/2003	BACON, EDWARD	Products and methods		
	10/639815		030	08/12/2003	BACON, EDWARD	Enhanced radiation therapy		
	10/702942		041	11/06/2003	BACON, EDWARD	Products and methods for brachytherapy		
	10/716238		030	11/18/2003	BACON, EDWARD	Substituted thioacetamides		
	60/268283		159	02/13/2001	BACON, EDWARD	Novel sulfur-containing carboxamides		
Docket: ZINNA DAVIS - 05/25/... TOC: 10/716238 - DAVIS, ZIN... *10/716238 - Transmittal of N... Bib Data: 10/716238 - DAVIS, ... Applications for inventor: BAC...								
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Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/831229	6689043	150	07/23/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY
	09/855228	6492398	150	05/15/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES
	09/860011	6632176	150	05/17/2001	BACON, EDWARD	PRODUCTS AND METHODS FOR BRACHYTHERAPY
	10/098576		041	08/27/2002	BACON, EDWARD	Iodine-containing radioactive sources
	10/014645	6670358	150	10/26/2001	BACON, EDWARD	SUBSTITUTED THIOACETAMIDES
	10/067545		160	02/07/2002	BACON, EDWARD	Contrast media
	10/105144		161	03/25/2002	BACON, EDWARD	Down pipe filter
	10/286988		030	11/01/2002	BACON, EDWARD	Light imaging contrast agents
	10/452398		030	06/02/2003	BACON, EDWARD	Products and methods
	10/839815		030	08/12/2003	BACON, EDWARD	Enhanced radiation therapy
	10/702942		041	11/06/2003	BACON, EDWARD	Products and methods for brachytherapy
	10/716238		030	11/18/2003	BACON, EDWARD	Substituted thioacetamides
	60/268283		159	02/13/2001	BACON, EDWARD	Novel sulfur-containing carboxamides

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eDAN Version 1.3.1 - ZINNA DAVIS (65429) Art Unit: 1625 - Applications for inventor: CHATTERJEE, SANKAR

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Application #

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/483776	6328377	160	01/16/2000	CHATTERJEE, SANKAR	Ketomethylene group-containing cysteine and serine protease inhibitors
	09/519879	6310057	150	03/07/2000	CHATTERJEE, SANKAR	Alpha-ketoamide multicatalytic protease inhibitors
	09/527540	6288231	150	03/16/2000	CHATTERJEE, SANKAR	Peptide-containing alpha-ketoamide cysteine and serine protease inhibitors
	09/850858		041	05/08/2001	CHATTERJEE, SANKAR	Novel multicyclic compounds and the use thereof
	09/855228	6492396	150	05/15/2001	CHATTERJEE, SANKAR	SUBSTITUTED THIOACETAMIDES
	09/879336	6703368	150	06/12/2001	CHATTERJEE, SANKAR	PEPTIDE-CONTAINING ALPHA-KETOAMIDE CYSTEINE AND SERINE PROTEASE INHIBITORS
	10/014645	6670358	150	10/26/2001	CHATTERJEE, SANKAR	SUBSTITUTED THIOACETAMIDES
	10/685923		041	10/14/2003	CHATTERJEE, SANKAR	Peptide-containing alpha-ketoamide cysteine and serine protease inhibitors
	10/716238		030	11/18/2003	CHATTERJEE, SANKAR	Substituted thioacetamides
	60/202947		159	05/09/2000	CHATTERJEE, SANKAR	Novel multicyclic compounds and the use thereof
	60/204789		159	05/16/2000	CHATTERJEE, SANKAR	Substituted thioacetamides
	60/268283		159	02/13/2001	CHATTERJEE, SANKAR	Novel sulfur-containing carboxamides
	60/495364		020	08/14/2003	CHATTERJEE, SANKAR	Proteasome inhibitors and methods of using the same
	60/495784		020	08/14/2003	CHATTERJEE, SANKAR	Proteasome inhibitors and methods of using the same

Docket: ZINNA DAVIS - 05/25/... TOC - 10/716238 - DAVIS, ZIN... * 10/716238 - Transmittal of N... Bib Data - 10/716238 - DAVIS... Applications for inventor: CHA...

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Application #

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/850858		041	05/09/2001	DUNN, DEREK	Novel multicyclic compounds and the use thereof
	09/855228	6492386	150	05/15/2001	DUNN, DEREK	SUBSTITUTED THIOACETAMIDES
	10/014645	6670358	150	10/26/2001	DUNN, DEREK	SUBSTITUTED THIOACETAMIDES
	10/716238		030	11/18/2003	DUNN, DEREK	Substituted thioacetamides
	60/202947		159	05/09/2000	DUNN, DEREK	Novel multicyclic compounds and the use thereof
	60/204789		159	05/16/2000	DUNN, DEREK	Substituted thioacetamides
	60/268283		159	02/13/2001	DUNN, DEREK	Novel sulfur-containing carboxamides

Docket: ZINNA DAVIS - 05/25/... Bib Data: 10/716238 - DAVIS... Applications for inventor: DUN...

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Application #

Pfx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/500849		095	02/10/2000	TRIPATHY, RABINDRAN	CYCLIC SUBSTITUTED FUSED PYRROLOCARBAZOLES AND ISOINDOLONES
	09/572160	6359130	150	05/17/2000	TRIPATHY, RABINDRAN	Bridged indenopyrrolocarbazoles
	09/702191	6455525	150	10/31/2000	TRIPATHY, RABINDRAN	HETEROCYCLIC SUBSTITUTED PYRAZOLONES
	10/014645	6670358	150	10/28/2001	TRIPATHY, RABINDRAN	SUBSTITUTED THIOACETAMIDES
	10/225670		061	08/22/2002	TRIPATHY, RABINDRAN	Heterocyclic substituted pyrazolones
	10/716238		030	11/18/2003	TRIPATHY, RABINDRAN	Substituted thioacetamides
	10/755505		019	01/12/2004	TRIPATHY, RABINDRAN	Cyclic substituted fused pyrrolocarbazoles and isoindolones

Docket: ZINNA DAVIS - 05/25/... Bib Data - 10/716238 - DAVIS, ... Applications for inventor: TRIP...

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Application #

Phx	App Num	Patent Num	Status	Date Filed	Inventor Name	Title
	09/855228	6492396	150	05/15/2001	VAUGHT, JEFFRY	SUBSTITUTED THIOACETAMIDES
	10/014645	6670358	150	10/26/2001	VAUGHT, JEFFRY	SUBSTITUTED THIOACETAMIDES
	10/716238		030	11/18/2003	VAUGHT, JEFFRY	Substituted thioacetamides
	60/469945		020	05/13/2003	VAUGHT, JEFFRY	Analeptic and antidepressant comt
	60/471302		020	05/16/2003	VAUGHT, JEFFRY	Analeptic and drug combinations

Docket: ZINNA DAVIS - 05/25/...
 Bib Data - 10/716238 - DAVIS, ...
 Applications for inventor: VAU...

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